



## WPEC/SG-C Meeting, 9 May 2016

## Revision of Actions Implementation of the changes to the HPRL request

O. Cabellos OECD/NEA Data Bank

**28th WPEC meeting, 9-13 May 2016,** OECD Headquarters, Conference Centre, Paris, France.

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Actions		
1. Action NEA:	The mandate should be a reference document on the HPRL website.	$\checkmark$
2. Action NEA:	Remind the projects of the need to appoint new/additional members of SG-C and ask existing members if they wish to continue.	$\checkmark$
3. Action NEA:	Modify the SG-C mailing list to reflect its current members and remind the members and WPEC of the way to use it (distribute the name).	$\checkmark$
4. Action SG-C members:	review the HPRL mailing list (distribution of present list by NEA).	$\checkmark$

### wpec-sgc@nea.fr or wpec-sgc@oecd-nea.org

WPEC subgroup C on the High Priority Request List for Nuclear Data (Subscribers: 17) http://www.oecd-nea.org/sympa/review/wpec-sgc





Email		<u>Domain</u>	Reception	Sub date	Last update
a.koning@iaea.org			mail	25 Nov 2015	25 Nov 2015
arjan.plompen@ed	c.euro	pa.eu	mail	05 Nov 2015	05 Nov 2015
danony@rpi.edu			mail	27 May 2015	27 May 2015
donald.l.smith@ar	nl.gov	bouncing	mail	11 Dec 2013	11 Dec 2013
fukahori.tokio@jae	ea.go.j	p	mail	16 Jun 2015	16 Jun 2015
gerald.rimpault@c	<u>ea.fr</u>		mail	11 Apr 2016	11 Apr 2016
gezg@ciae.ac.cn			mail	04 Jun 2015	04 Jun 2015
harada.hideo@jae	harada.hideo@jaea.go.jp			03 Jun 2015	03 Jun 2015
iwamoto.osamu@jaea.go.jp			mail	03 Jun 2015	03 Jun 2015
ntof@ciae.ac.cn			mail	04 Jun 2015	04 Jun 2015
oscar.cabellos@oe	cd.org		mail	02 May 2016	02 May 2016
pronyaev@ippe.ru		bouncing	mail	29 Feb 2016	29 Feb 2016
sun_weili@iapcm.a	<u>ac.cn</u>		mail	05 Jun 2015	05 Jun 2015
tomohiko.iwasaki@	pqse.t	ohoku.ac.jp	mail	26 Feb 2016	26 Feb 2016
vkoscheev@ippe.r	<u>u</u>		mail	04 Jan 2016	04 Jan 2016
yokoyama.kenji09	@jaea.	.go.jp	mail	06 Jul 2015	06 Jul 2015
yolee@kaeri.re.kr			mail	03 Jun 2015	03 Jun 2015

WPEC subgroup C on the High Priority Request List for Nuclear Data (Subscribers: 17)





Actions		
1. Action NEA:	The mandate should be a reference document on the HPRL website. (Duration: June 2016)	$\checkmark$
2. Action NEA:	Remind the projects of the need to appoint new/additional members of SG-C and ask existing members if they wish to continue.	$\checkmark$
3. Action NEA:	Modify the SG-C mailing list to reflect its current members and remind the members and WPEC of the way to use it (distribute the name).	$\checkmark$
4. Action SG-C members:	review the HPRL mailing list (distribution of present list by NEA).	$\checkmark$

hprl@nea.fr or hprl@oecd-nea.org High priority Request List (Subscribers: 110) http://www.oecd-nea.org/sympa/review/hprl





### SG-C Meeting, 2016: List of ACTIONS- 2015

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	oscar.cabellos@oecd.org [Privileged owner]	Text archives Help	Reply to sender  to list  to both  Reply	*
	[Inviloged owner]		(Re-deliver to oscar.cabellos@oecd.org)	
	Logout	Website: WP	PEC/SG-C meeting this mail for deletion	
			(View source)	
	wpec-sgc@nea.fr	< Chronological > < Three	ad > (Chronological) (Thread)	
	WPEC subgroup C on the High Priority Request List for Nuclear Data	<ul> <li>From: <oscar.cabellos@oecd.org></oscar.cabellos@oecd.org></li> <li>To: <hprl@oecd-nea.org>, <wpec-sgc< li=""> <li>Subject: Website: WPEC/SG-C meetin</li> <li>Date: Wed, 3 Jun 2015 16:00:46 +00</li> <li>Accept-language: en-US</li> </wpec-sgc<></hprl@oecd-nea.org></li></ul>	ng, May 2015	
		• Accept language. en-03		
	Subscribers: 17 (Error rate:11.7 %)	Dear Colleagues,		
	Owners oscar.cabellos	Deal concegues,		
	Moderators			
	oscar.cabellos	during the WPEC-SG-C meeting are now avai	: https://www.oecd-nea.org/dbdata/hprl/ . Presentations given ilable online.	
	Contact owners			
	Subscriber Options	FYI, a new section is open at this website:	Toxt ar	shivos
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	Admin	+++++++++++++++++++++++++++++++++++++++	+++++++	
	Moderate	Meetings		
	Message (0)	NEA, Issy-les-Moulineaux, France, 18 May 20	15	
	Document (0)	+++++++++++++++++++++++++++++++++++++++	+++++++++	
	Subscriptions (0)			
	Archive			
	Post	As you can see in Annex 6, two examples of f (Annex_6.HPRL_FeedbackForm_23Na_and_5)	eedback forms are included 6Fe_modAP.pdf). We are interested in comments and additions to	
	RSS	these examples.		
	Review members			
		Please send me an email if you have any com	ments, corrections or feedback.	
				*

http://www.oecd-nea.org/sympa/review/hprl





Actions			
5. Action NEA:	Implement the changes to the request given accordin <b>Annex 2</b> and move the status of the request from "to checked" to "high priority". An email should be sent to HPRL list to announce this new request once this is do	be T the	BD
Raws	List of pending requests from database		
145	Np-237(n,f)-SIG,DE : Fredrik Tovesson		

"HPRL" ADD group to be able to use :

https://www.oecd-nea.org/html/dbdata/hprl/pending/

Annex 2. High priority request for the new measurements of the 237Np(n,f), by F Tovesson https://www.oecd-nea.org/dbdata/hprl/2015\_May/Annex\_2\_Np-237.pdf





Actions		
6. Action NEA:	Modify the website and database of the HPRL to accommodate requests for special purpose quantity using the guidance provided <b>in Annex 3.</b> The example in Annex 4 provides partial further guidance. A timely implementation is of the utmost importance for a credible follow-up of the SG decisions and its mandate.	✓
7. Action NEA:	Ask for secretarial support from S. Simakov and the NEA secretariat to enter the SPA requests of the proposal by Simakov according to the guidelines given in <b>Annex 4</b> together with his request.	✓





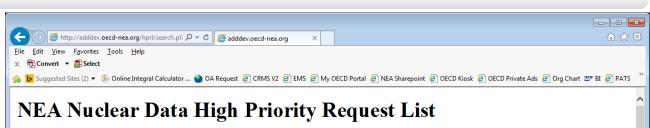
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NEA Ni	uclear D	ata Hig	gh Priorit	y Request L	list	
			Constant Designation			
HPRL Main	<u>High Priority</u> <u>Requests (HPR)</u>	<u>General</u> <u>Requests (GR)</u>	Special Purpose Quantities (SPQ)	New Request	Discussion and Feedback	
					nuclear data requirements. The	
provide a guide fo list.	or those planning	measurement, nu	clear theory and eval	uation programmes. See a	lso the historical background to	the present reques
<b>1</b> .5t.						
The list is maintain	ned by the NEA	Working Party or	n International Nuclea	ar Data Evaluation Cooper	ration (WPEC).	
D ( 11.1						
Requests are divi	ded in three main	categories:				
1. High priori	tv requests					
<ol> <li>General rec</li> </ol>						
<ol><li>Special put</li></ol>	rpose quantities					
			S	Searchlist		
Feedback						
The NEA Nuclea					ooperation (WPEC) and its Sub	
The NEA Nuclea interested in obtai	ining feedback fro	m users of this w	vebsite on a variety o	f issues including comment	s on the layout of this website ar	nd ease of its use,
The NEA Nuclea interested in obtain content of the nuc	ining feedback fro clear data request	m users of this w list and on indivi	vebsite on a variety o dual requests. The N	f issues including comment EA hopes to keep the req	s on the layout of this website ar uest list current and maintain its v	nd ease of its use, value to users. All
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http://adddev.oecd-nea.org/hprl/index.html





## **High Priority**



<u>HPRL Main</u>	<u>High Priority</u> <u>Requests</u> (HPR)	General Requests (GR)	Special Purpose Quantities (SPQ)	New Request	Discussion and Feedback
	(IIII)				

### Results of your search in the request list

Requests are shown from the following list(s):

#### High Priority (H)

Explanations of each column can be found in the table heads. To view the details of a request, please click on the **link symbol** after the request ID. To send a comment on a particular entry, please view the request, and click on the **'letter'** symbol there.

Req	. ID Vie		Reaction	Quantity	Energy range	Sec.E/Angle Accura	cy Cov Field	Date
н	37 💆	1	(n,f)	SIG	0.5 keV-5 MeV	See detai	ls Y Fission	15-SEP-08
н	38 💆	94-PU-240	(n,f)	nubar	200 keV-2 MeV	See detai	ls Y Fission	15-SEP-08
н	22 💆	95-AM-242	(n,f)	SIG	0.5 keV-6 MeV	See detai	ls Y Fission	31-MAR-08
н	27 💆	96-CM-245	(n,f)	SIG	0.5 keV-6 MeV	See detai	ls Y Fission	04-APR-08
н	29 💆		(n,inl)	SIG	0.5 MeV-1.3 MeV	Emis spec. See detai	ls Y Fission	04-APR-08
н	43 💆	1-н-1	(n,n)	SIG,DA	10 MeV-20 MeV	4 pi 1	-2 Y Standard	29-APR-11
н	32 💆	94-PU-239	(n,g)	SIG	0.1 eV-1.35 MeV	See detai	ls Y Fission	04-APR-08
н	36 💆	92-U-238	(n,g)	SIG	20 eV-25 keV	See detai	ls Y Fission	15-SEP-08
н	4 💆		(n,f)	prompt g-prod	Thermal-Fast	Eg=0-10MeV	.5 Y Fission	10-MAY-06
н	2 💋		(n,a), (n,abs)	SIG	2 MeV-20 MeV	See detai	ls Y Fission	21-SEP-05
н	5 💋		(n,g)	SIG	0.5-5.0 keV		4 Y Fission	28-APR-06
н	з 💆		(n,f)	Prompt g-prod	Thermal-Fast	Eg=0-10MeV	.5 Y Fission	28-APR-06
н	8 💋		(n,ela)	dA/dE	0.1 MeV-1 MeV	0-180 Deg	5 Y Fission	25-JUL-06
н	15 💆	95-AM-241	(n,g), (n,tot)	SIG	Thermal	See detai	ls Fission	08-NOV-07
н	12 💆	92-u-235	(n,g)	SIG, RP	100 eV-1 MeV		3 Y Fission	29-AUG-07
н	18 💆	92- <b>U</b> -238	(n,inl)	SIG	65 keV-20 MeV	Emis spec. See detai	ls Y Fission	28-MAR-08
н	19 💆	94-PU-238	(n,f)	SIG	9 keV-6 MeV	See detai	ls Y Fission	31-MAR-08
Н	25 💆	96-CM-244	(n,f)	SIG	65 keV-6 MeV	See detai	ls Y Fission	04-APR-08
		1						

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(HPR)



## General

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NEA Nuclear Data High Priority Request List	

### High Priority Requests General Requests (GR) Special Purpose Quantities (SPQ) New Request Discussion and Feedback

### Results of your search in the request list

Requests are shown from the following list(s):

General (G)

Explanations of each column can be found in the table heads. To view the details of a request, please click on the **link symbol** after the request ID. To send a comment on a particular entry, please view the request, and click on the **'letter'** symbol there.

Reg	I. ID View	Target	Reaction	Quantity	Energy range	Sec.E/Angle	Accuracy	Cov Field	Date
G	1 🧖	14-SI-28	(n, np)	SIG	Threshold-20 MeV	4 pi	20	Y Fusion	21-SEP-05
G	б 🙋	92-U-233	(n,g)	SIG	10 keV-1.0 MeV		9	Y Fission	28-APR-06
G	7 🛸	26-FE-56	(n, xn)	SIG, DDX	7 MeV-20 MeV	1MeV-20MeV	30	Fission, ADS	13-JUL-06
G	э 🛸	92-U-233	(n,g)	nubar, SIG	Thermal-10 keV		.5	Y Fission	19-APR-07
G	14 🧖	94-PU-242	(n,g), (n,tot)	SIG	0.5 eV-2.0 keV		8	Y Fission	06-JUL-07
G	16 🛸	95-AM-243	(n,f)	n spectrum	Eth-10 MeV		10	ADS	08-NOV-07
G	17 🛸	96-CM-244	(n,f)	n spectrum	Eth-10 MeV		10	ADS	08-NOV-07
G	11 🛸	94-PU-239	(n,f), (n,g)	SIG,eta, alpha	1 meV-1 eV		1	Y Fission	09-MAY-07
G	10 ≶	79-AU-197	(n,tot)	SIG	5 keV-200 keV		5	Science, Fusion	18-MAY-07
G	13 🛸	24-CR-52	(n,xd), (n,xt)	SIG	Threshold-65 MeV		20	Y Fusion	23-0CT-07

#### Number of requests found: 10 (out of a total of 38 requests).

Download consolidated output report







## Special Purpose Quantities (SPQ)

	(HPR)	Door		<u>(SPQ)</u>				
		Kesu	lts of your	search in the	request	list		
			-	hown from the follow				
			Special P	urpose Quantities (S	PQ)			
-				w the details of a reque nd click on the <b>'letter'</b>		on the link syml	bol after the request	ID.
eq.ID View 465	Target 93-NP-237	Reaction (n,f)	Quantity SIG,DE	Energy range Se	c.E/Angle			ate 2-MAR-16
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	CAL DALA SELVICES	Search	Go
Databases » EXFOR	ENDF CINDA IBANDL Medical PGAA NGAtlas RIPL FENDL IRDF-2002 IRDFF		
☆ Participants (CSI) M. Angelone	Testing and Improving the International Reactor Dosimetry and Fu	sion File (IRDFF)	
M. Chadwick	Coordinated Research Project (CRP) - approved on 30 October 2012, CRP code F4	1031	RCM-2 Report INDC(NDS)-0682
V. Chechev C. Destouches	duration period: 4 years, July 2013 (1st RCM) - March 2015 (2nd RCM) - 1Q 2017 (		RCM-1 Report INDC(NDS)-0639
L. Greenwood P. Griffin	Motivation/Purposes		INDC(NDS)-0668:
I. Kodeli	The Nuclear Data Section of IAEA, in accordance with the recommendation of the International Nuclear D	ata Committee (INDC(NDS)	Evaluation of 28Si (n,p)28Al, 31P(n,p)
<u>C. Konno</u> M. Majerle	-0619), has initiated a Coordinated Research Project (CRP) with the main goal to test, validate and improve	the IRDFF library.	31Si and 113In(n,g) 114mIn
P. Mastinu	The International Reactor Dosimetry and Fusion File (IRDFF) (for more information see IRDFF release page International Reactor Dosimetry File (IRDF-2002) to cover fission, fusion and accelerator driven applications		INDC(NDS)-0657: Evaluation of some
R. Nchodu II ►		-	
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	5. Photo-induced Reactions which produce the same residual isotope or fission product as neutrons do:		(comercial) k0 Scientific Commitee
	<ul> <li>- (g,n) vs (n,2n): cross sections and contributions in the n-g mixed field, e.g. <sup>238</sup>U, <sup>23</sup>Na</li> <li>- (g,f)FP vs (n,f)FP: cross sections, their contributions in the n-g mixed field</li> <li>- Photonuclear Reaction Libraries: IAEA or others</li> </ul>		NAA-online.net
	- Photo-Induced Fission Product Yields: no Evaluations (?), only Measurements (? - see PhysRev C91(2014)03460	3, Eur.Phys.J. A51(2015):150)	☆ Codes for Spectrum Adjustemnt
	(see IAEA CRP on Photonuclear Data)		SAND-II-SNL STAYSL @ PNNL
	IRDFF: Needs for measurements, updates or new evaluations, data formats		STAYSL @ IAEA
	Proposals for new measurements for IRDFF community and HPRL: Reactions to Measure		GRAVELW STAYNL (NMF-90)
	• The list of reactions recommended for updating or new evaluation and inclusion in IRDFF : Reactions to		
	<ul> <li>Energy group structure recommended by 1st RCM: "640 groups below 20 MeV, 0.5 MeV steps from 20 to 30 MeV and 2 MeV steps from 40 to 100 MeV, and 5 MeV above 100 MeV".</li> </ul>	V, 1 MeV steps from 30 to 40 MeV,	
	Energy demains, typical fields, facilities and data status		REAL-88 = NMF-90 REAL-84 (Results): INDC
	Energy domains, typical fields, facilities and data status		(NDS)-212
	Reactor driven and spontaneous or induced fission spectra (thermal, fast) <ul> <li>Spectrum averaged cross sections (SPA) in standard and reference fields</li> </ul>		REAL-84 (Analysis): INDC (NDS)-198
	- <sup>252</sup> Cf(s.f.): Measured, Calculated with Standard spectrum and C/E Ratio plots		REAL-84 (Analysis): INDC (NDS)-190
	<ul> <li>- <sup>235</sup>U(nth,f): Measured, Calculated with ENDF/B-VII.1 or JENDL-4.0 spectra and C/E Ratio plots</li> <li>- Thermal: Experimental σ and RI (Atlas in EXFOR: Z=1-50, Z=51-100 or Z=1-100) and Calculated with Max</li> </ul>	wellian (25.3meV) spectrum	REAL-80 (Results): INDC (NED)-007
	<ul> <li>SPA for high threshold reactions not measured yet in <sup>252</sup>Cf(s.f.) and <sup>235</sup>U(nth,f) fields</li> </ul>	weman (25.5mev) spectrum	REAL-80 (Analysis): INDC
	• IRDF-2002 collection of standard and reference reactor spectra (however without uncertainties) (Spectra and C/E	and ENDF formated data )	(NDS)-148/G Current Status of Neutron
	research reactors and critical assemblies (e.g., ICSBEP collection: Spectra and SPA and Indices)		Spectrum Unfolding,
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	© 2016 Organisation for Economic Co-operation and Development		11 / 15





## New Request

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	HPRL: NEA NUClear	Data Request Submission Form	
	High Priority HPRL Main (HPR)	General Special Purpose Quantities (SPQ) New Request Discussion and Feeback	
	Before filling in this template,	Please see the guidelines for submitting requests.	
	Requester details (Items man	ked * are mandatory)	
	Name *		
	Email *		
	Organisation *		
	Country or International Organis	ation	
	Measurement details		
	Target Z *	✓	
	Target A *		
	Reaction/Process *	Examples to choose from V	
	Quantity *	Examples to choose from V	
	Incident Energy range (eV) *		
	Secondary energy (eV) or angle *		
	Covariance information *		
	Type of request *	High Priority      Special Purpose Quantity:     Activation data	
	Field (application areas) *	Decay Data Fission yields Spectrum Averaged cross sections (SPA) SPA - 252Cf(Spontaneous fission) SPA - 252(Ur-fh.f)	
	Subfield *	SPA - Maxwellian-Averaged Cross-Section (MACS) (kT=30 keV) Thermal Scattering Law	
	Notes		
	Impact documentation *		
	Requested Accuracy *		
	Justification documentation *		
	General comments		
	Optionally attach a file as an	annex:	
	First:	Browse	





ellos's Home 🖉 CABELLOS Oscar, NEA/DB × 💸 hprl - High priority Request Lis 🕥 oecd-nea.org	Monday, March 07, 2016 5:20 PM
Jice 👻 🌈 Skyscanner 📚 Spotify	
sign out CABELLOS Oscar, NEA/DB -	
Find Someone Options • 🕐 •	
Dear Arjan and Stanislav	
We have a first draft of the new HPRL database. For security issues, it is not reachable outside NEA. Sorry.	
Here, I enclose some examples of these new data extracted from IRDFF website and the latest WPEC/SG-C meeting.	
My objective is to update the database with this info, to be ready and operational before the WPEC meeting.	
Please, I would appreciate if you have time to see these examples. Comments and suggestions are welcome.	
My best regards	
Oscar	
🕥 Oscar Cabellos, Ph.D.	
Nuclear Data Scientist, NEA Data Bank	
OECD Nuclear Energy Agency (NEA)	
Tel.: +33 (0)1 45 24 10 84	
Email: oscar.cabellos@oecd.org <u>www.oecd-nea.org</u>	
	_

### Dear Oscar and Arjan,

I quickly looked through the docs you've sent - all these materials will surely serve for concrete specifications of HPRL for the low and high energy neutron dosimetry.

It will be interesting to observe later how all this information will be presented at the HPRL web .

Best regards,

Stanislav Simakov

PS. Likely I have to inform you that I'm leaving IAEA next month and all IRDFF business will be continued by

A. Trkov and R. Capote.





Requester details	
Name	S. Simakov
Email	s.simakov@iaea.org
Organisation	IAEA
<b>Country or International Organisation</b>	IAEA
Measurement details	
Target Z	Ga
Target A	67
Reaction/Process	DECAY
Quantity	DECAY data
Incident Energy range	NA
Secondary energy (eV) or angle	NA
Covariance information	γ
Type of request	SPQ – Decay Data
Field (application areas)	Standard
Subfield	Standards for detector calibration
Impact Documentation	IRDFF webpage <u>https://www-nds.iaea.org/IRDFF/</u>
	IRDFF test CRP page <a href="https://www-nds.iaea.org/IRDFFtest/">https://www-nds.iaea.org/IRDFFtest/</a>
Requested Accuracy	
Justification documentation	The evaluation is based on the value of the absolute
	emission probability of conversion electrons from the
	gamma transition of 93.3 keV P(ec <sub>1,0</sub> )=0.325(4). It is
	obtained from the two discrepant measurement results
	of 0.3206(23) and 0.329(4). Further measurements of
	this key value are required.
	Methods: 4PI(LS)e, X-g coincidences
General comments	
Attached files	





Name	S. Simakov
Email	s.simakov@iaea.org
Organisation	IAEA
<b>Country or International Organisation</b>	IAEA
Measurement details	
Target Z	Bi
Target A	209
Reaction/Process	(n,xn)
Quantity	SIG
Incident Energy range	20 - 200 MeV
Secondary energy (eV) or angle	NA
Covariance information	Υ
	SPQ – Activation data
Field (application areas)	Reactor Dosimetry
Subfield	Validation
Impact Documentation	IRDFF webpage <u>https://www-nds.iaea.org/IRDFF/</u>
	IRDFF test CRP page <a href="https://www-nds.iaea.org/IRDFFtest/">https://www-nds.iaea.org/IRDFFtest/</a>
	CRP/IRDFF strives to evaluate and eventually add to the IRDFF library the high threshold reactions with
	cross section plateaus located between 20 and 100-200 MeV to meet the requirements of the high
	neutron energy accelerator driven sources such as ADS.
Described Assessments	
Requested Accuracy	New measurements must make an effort to reach 2-5% uncertainty for E50%<15 MeV or 5-10% for
	E50%>15 MeV).
Justification documentation	As impact documentation.
General comments	The International Reactor Dosimetry and Fusion File aims at providing validated evaluated neutron
	dosimetry reactions for all applications in reactors and fusion technology development.
Attached files	





Name	S. Simakov
Email	s.simakov@iaea.org
Organisation	IAEA
Country or International Organisation	IAEA
Measurement details	
Target Z	Sn
Target A	117
Reaction/Process	(n,n' )
Quantity	SIG
Incident Energy range	5 - 10 MeV
Secondary energy (eV) or angle	NA
Covariance information	Υ
Type of request	SPQ – Activation data
Field (application areas)	Reactor Dosimetry
Subfield	Validation
Impact Documentation	IRDFF webpage <u>https://www-nds.iaea.org/IRDFF/</u>
	IRDFF test CRP page <a href="https://www-nds.iaea.org/IRDFFtest/">https://www-nds.iaea.org/IRDFFtest/</a>
	It is a unique way to measure neutrons in the 300 keV energy range. <u>(See Ref. INDC(NDS)-0682</u> )
Requested Accuracy	New measurements must make an effort to reach 2-5% uncertainty for E50%<15 MeV or 5-10% for E50%>15 MeV).
Justification documentation	As impact documentation.
General comments	The International Reactor Dosimetry and Fusion File aims at providing validated evaluated neutron dosimetry
	reactions for all applications in reactors and fusion technology development.
	This dosimeter has been already experimentally tested (irradiated) employing the inreached Tin foil (93% at.
	117Sn) in different reactor spectra at CEA. However, the microscopic nuclear data for this reaction suffer of
	lack measurements on plateau (5 - 10 MeV), discrepancies between library evaluations, lack of uncertainties
	prevent this reaction to be used.
Attached files	
Reviewer comment	





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Name	S. Simakov
Email	s.simakov@iaea.org
Organisation	IAEA
Country or International Organisation	IAEA
Target Z	Sc
Target A	45
Reaction/Process	(n,g)
Quantity	SPA
Incident Energy range	FNS 252Cf(SF)
Secondary energy (eV) or angle	NA
Covariance information	Υ
Type of request	SPO – SPA 252Cf (Spontaneous fission)
Field (application areas)	Reactor Dosimetry
Subfield	Validation
Impact Documentation	IRDFF webpage <u>https://www-nds.iaea.org/IRDFF/</u>
	IRDFF test CRP page <u>https://www-nds.iaea.org/IRDFFtest/</u>
Requested Accuracy	New measurements must make an effort to reach 2-5% uncertainty for E50%<15 MeV or 5-10% for E50%>15 MeV).
Justification documentation	As impact documentation.
General comments	The International Reactor Dosimetry and Fusion File aims at providing validated evaluated neutron dosimetry
	reactions for all applications in reactors and fusion technology development. Spectrum averaged cross sections in well
	characterized fields such as the 252Cf(SF), 235U(n-th,f) fission neutron spectra and the quasi-maxwellian 30 keV
	spectrum are essential to validation of the proposed cross sections in fields that are close to the interest in
	applications.
Attached files	
Reviewer comment	Reactions without threshold measured in fast spectra such as the <sup>252</sup> Cf(SF) and <sup>235</sup> U(n-th,f) spectrum tend to have their spectrum averaged cross section dominated by scattering contributions and 'room-return' neutrons.
	In all cases experiments should be careful to minimize these contributions and maximize the reaction rate of the
	target spectrum. For new experiments best estimates must be provided by detailed Monte Carlo calculation of the
	spectrum realized in the experiment and the Monte Carlo model must be made available to IRDFF to facilitate
	validation of new proposals for the cross section. In all cases it is advised to publish both the fully corrected SPA and
	the measured reaction rates of the primary reaction and the monitor reactions used for normalization and validation
	of the model. The measured reaction rates must be provided with a full covariance matrix.





Name	S. Simakov
Email	s.simakov@iaea.org
Organisation	IAEA
<b>Country or International Organisation</b>	IAEA
Target Z	Ag
Target A	109
Reaction/Process	(n,g-m)
Quantity	SPA
Incident Energy range	MACS (30 keV)
Secondary energy (eV) or angle	NA
Covariance information	Υ
Type of request	SPQ – SPA MACS (30 keV)
Field (application areas)	Reactor Dosimetry
Subfield	Validation
Impact Documentation	IRDFF webpage <u>https://www-nds.iaea.org/IRDFF/</u> IRDFF test CRP page <u>https://www-nds.iaea.org/IRDFFtest/</u>
Requested Accuracy	New measurements must make an effort to reach 2-5% uncertainty for E50%<15 MeV or 5-10% for E50%>15 MeV).
Justification documentation	As impact documentation.
General comments	The International Reactor Dosimetry and Fusion File aims at providing validated evaluated neutron dosimetry reactions for all applications in reactors and fusion technology development. Spectrum averaged cross sections in well characterized fields such as the 252Cf(SF), 235U(n-th,f) fission neutron spectra and the quasi-maxwellian 30 keV spectrum are essential to validation of the proposed cross sections in fields that are close to the interest in applications.
Reviewer comment	Reactions without threshold measured in fast spectra such as the <sup>252</sup> Cf(SF) and <sup>235</sup> U(n-th,f) spectrum tend to have their spectrum averaged cross section dominated by scattering contributions and 'room-return' neutrons. In all cases experiments should be careful to minimize these contributions and maximize the reaction rate of the target spectrum. For new experiments best estimates must be provided by detailed Monte Carlo calculation of the spectrum realized in the experiment and the Monte Carlo model must be made available to IRDFF to facilitate validation of new proposals for the cross section. In all cases it is advised to publish both the fully corrected SPA and the measured reaction rates of the primary reaction and the monitor reactions used for normalization and validation of the model. The measured reaction rates must be provided with a full covariance matrix.





Name	S. Simakov
Email	s.simakov@iaea.org
Organisation	IAEA
Country or International Organisation	IAEA
Target Z	Sc
Target A	45
Reaction/Process	(n,g)
Quantity	SPA
Incident Energy range	PFNS 235U(nth,f)
Secondary energy (eV) or angle	NA
Covariance information	Y
Type of request	SPQ – SPA 235U(nth,f)
Field (application areas)	Reactor Dosimetry
Subfield	Validation
Impact Documentation	IRDFF webpage <a href="https://www-nds.iaea.org/IRDFF/">https://www-nds.iaea.org/IRDFF/</a>
	IRDFF test CRP page <u>https://www-nds.iaea.org/IRDFFtest/</u>
Requested Accuracy	New measurements must make an effort to reach 2-5% uncertainty for E50%<15 MeV or 5-10% for E50%>15 MeV).
Justification documentation	As impact documentation.
General comments	The International Reactor Dosimetry and Fusion File aims at providing validated evaluated neutron dosimetry
	reactions for all applications in reactors and fusion technology development. Spectrum averaged cross sections in well characterized fields such as the 252Cf(SF), 235U(n-th,f) fission neutron spectra and the quasi-maxwellian 30 keV spectrum are essential to validation of the proposed cross sections in fields that are close to the interest in applications.
Reviewer comment	Reactions without threshold measured in fast spectra such as the <sup>252</sup> Cf(SF) and <sup>235</sup> U(n-th,f) spectrum tend to have their spectrum averaged cross section dominated by scattering contributions and 'room-return' neutrons. In all cases experiments should be careful to minimize these contributions and maximize the reaction rate of the target spectrum. For new experiments best estimates must be provided by detailed Monte Carlo calculation of the spectrum realized in the experiment and the Monte Carlo model must be made available to IRDFF to facilitate validation of new proposals for the cross section. In all cases it is advised to publish both the fully corrected SPA and the measured reaction rates of the primary reaction and the monitor reactions used for normalization and validation of the model. The measured reaction rates must be provided with a full covariance matrix.





Actions		
8. Action AP (done):	Send an email to Robert Mills (NNL), Mark Kellett (LNHB), V. Chechev (Khlopin RI), Dr. F. Minato (JAEA), I. Gauld (ORNL), A. Sonzogni (BNL) to review the list by T.Golashvili (Annex 5) and modify and add to it in accordance with their view of importance to applications interests. Consult with the SG-C chair in case this email requires assistance.	
9. Action AP (done):	Contact Robert Mills (NNL), Mark Chadwick, Morgan White (LANL), Ian Gauld (ORNL), (JENDL, T. Fukahori), O. Serot (CEA), A. Ignatyuk (IPPE) to provide their suggestions for an SPQ list of Fission Yield requests.	
10. Action AP (done):	Contact G. Noguere (CEA), D. Roubtsov (AECL), Y. Danon (RPI), M. Dunn (ORNL), A. Kahler (LANL), I. Hawari (NCSU), T. Fukahori (JAEA) to provide their suggestions for an SPQ list of Thermal Scattering Law requests.	





Actions		
11.Action MW:	Prepare requests for nu-bar of U-235 and Pu-239 in consultation with M. Chadwick.	
12. Action MW:	Prepare requests for the PFNS of U-235 and Pu-239 in consultation with M. Chadwick.	
13. Action M. Chadwick:	Propose requests for the fission cross sections of U-235 and Pu-239.	
14. Action MW and AP:	Prepare requests for Pu-239 and U-235 inelastic scattering.	





Actions		
15. Action AP:	Renew the appeal for feedback to the project responsibles, SG-C and WPEC and ensure timely completion of the report and the mandate deliverables.	